

*Lubrication solutions  
to keep systems  
running smoothly*

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A **TIMKEN** Brand

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The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, gears, chain and related mechanical power transmission products and services.

Stronger. **Commitment.** Stronger. **Value.** Stronger. **Worldwide.** Stronger. **Together.** | Stronger. **By Design.**

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 **ROTALUBE**

Standard Chain Lubrication Systems

ILS\_RL\_001\_EN1

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Stronger. **Commitment.** Stronger. **Value.** Stronger. **Worldwide.** Stronger. **Together.** | Stronger. **By Design.**

## Unique Chain Lubrications

The Rotalube chain lubrication system is a unique and precise method of applying accurate amounts of oil onto chain as it is in production.

The Rotalube is a controlled applicator that does not suffer from wear, and maintains accurate lubrication whatever the condition of the chain.

## Smooth Running

Automatic lubrication systems are designed to apply regular and accurate amounts of oil to single or multiple Rotalubes in diverse industrial applications such as:

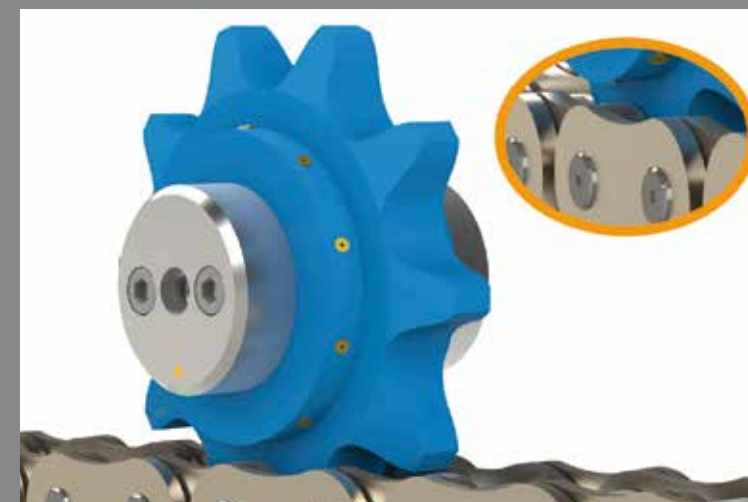
- ▶ Food industry
- ▶ Automobile industry
- ▶ Steel industry
- ▶ Fiberglass industry
- ▶ Cement industry
- ▶ Agricultural
- ▶ Packaging machinery

## Standard Rotalube Applications

### Specifications

Lubricant Viscosity: Max 100Cst and Min 68Cst  
 Material: Steel Nickel Plated Hub and Nylatron Sprocket  
 Max Speed: 50m per min.  
 Air Pressure: 5 to 20 PSI  
 Temp Max: 70 °C (158°F)  
 Temp Min: -20 °C (-68°F)  
 Inlets: 1/8" NPT (F) x 2. Lubricant can be fed from both sides or just one side, this is installation specific.

Fig 1



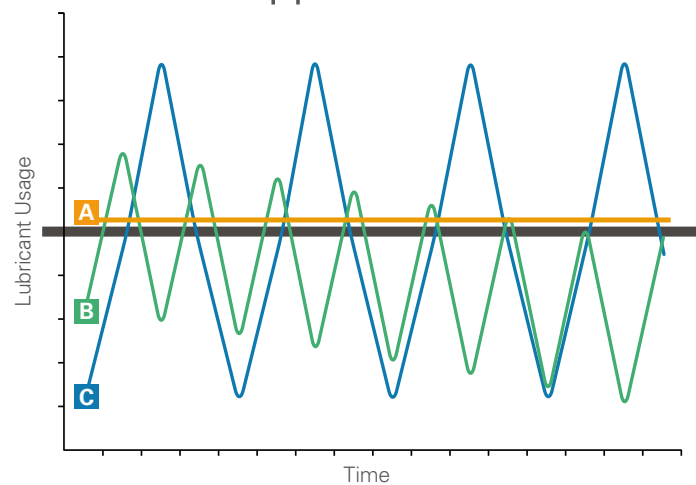
## Standard Rotalube Applications

At present, common systems used to lubricate chains are:

- ▶ Drip feed
- ▶ Manual application
- ▶ Brush application
- ▶ Spit/spray

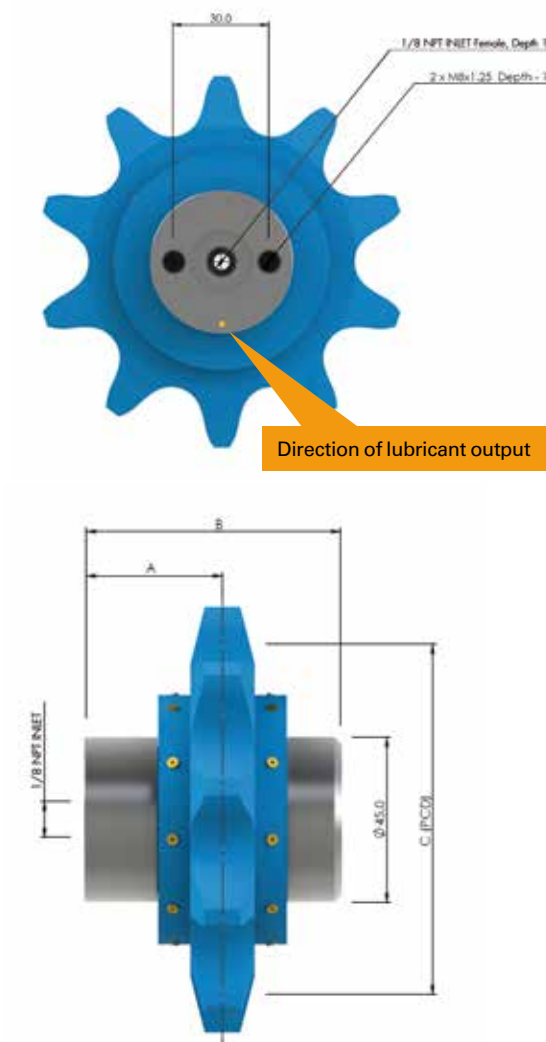
Any system that delivers lubrication is better than none at all, but the Rotalube system can extend chain life significantly and help reduce maintenance costs, which is an important benefit for Industrial applications in the competitive global marketplace.

## Precise Oil Applications



- A - Rotalube
- B - Brush, Drip and Shot
- C - Manual Lube
- Optimal Lubrication Requirement

Fig 2



### Standard Rotalube Applicators (Simplex) With Brass Inserts

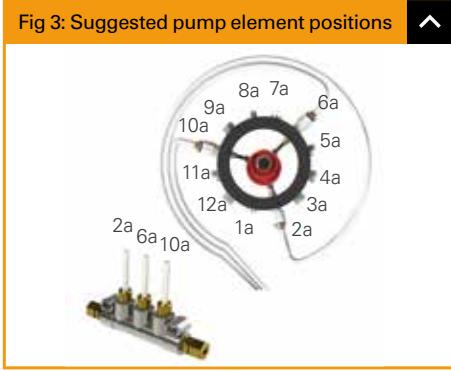
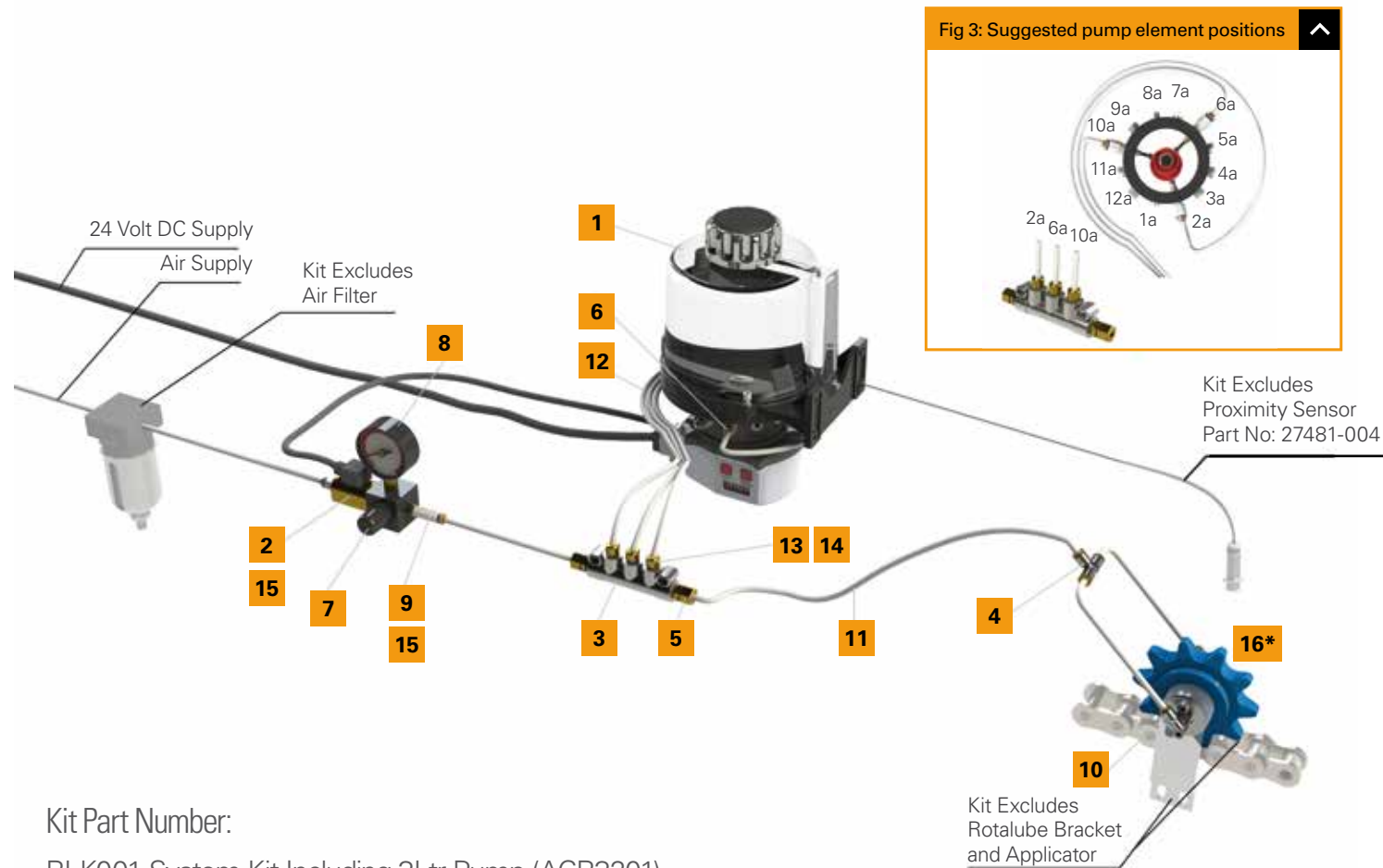
Part No	Size	BS	ANSI	A	B	C
RL-08B1	1/2in	✓		26.9	48.8	89.2
RL-10B1	5/8in	✓		28.3	51.5	91.4
RL-12B1	3/4in	✓		29.5	54.0	91.6
RL-16B1	1in	✓		35.9	66.8	98.1
RL-ASA40-1	1/2 in		✓	27.2	49.3	89.2
RL-ASA50-1	5/8in		✓	29.0	53.0	91.4
RL-ASA60-1	3/4in		✓	31.4	57.7	91.6
RL-ASA80-1	1in		✓	34.6	64.2	98.1
RL-ASA100-1 1 1/4"	1 1/4in		✓	37.65	70.15	102.7
RL-ASA120-1 1 1/2"	1 1/2in		✓	43.5	82.15	111.4

### Standard Rotalube Applicators (Simplex) Without Brass Inserts

Part No	Size	BS	ANSI	A	B	C
RL-08B1W	1/2in	✓		26.9	48.8	89.2
RL-10B1W	5/8in	✓		28.3	51.5	91.4
RL-12B1W	3/4in	✓		29.5	54.0	91.6
RL-16B1W	1in	✓		35.9	66.8	98.1
RL-ASA40-1W	1/2in		✓	27.2	49.3	89.2
RL-ASA50-1W	5/8in		✓	29.0	53.0	91.4
RL-ASA60-1W	3/4in		✓	31.4	57.7	91.6
RL-ASA80-1W	1in		✓	34.6	64.2	98.1
RL-ASA100-1W 1 1/4"	1 1/4in		✓	37.65	70.15	102.7
RL-ASA120-1W 1 1/2"	1 1/2in		✓	43.5	82.15	111.4

Note: BS = British Standard, ANSI = American National Standards Institute  
 A, B and C dimensions are in mm.

# Rotalube Lubrication Kit for One Standard Rotalube



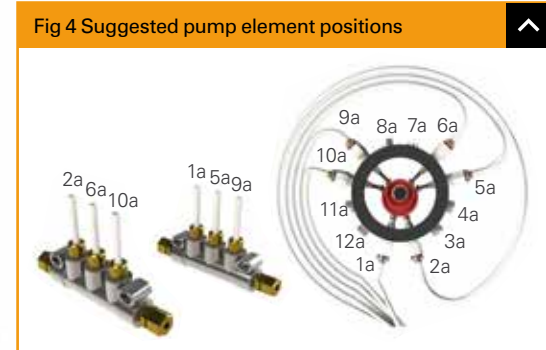
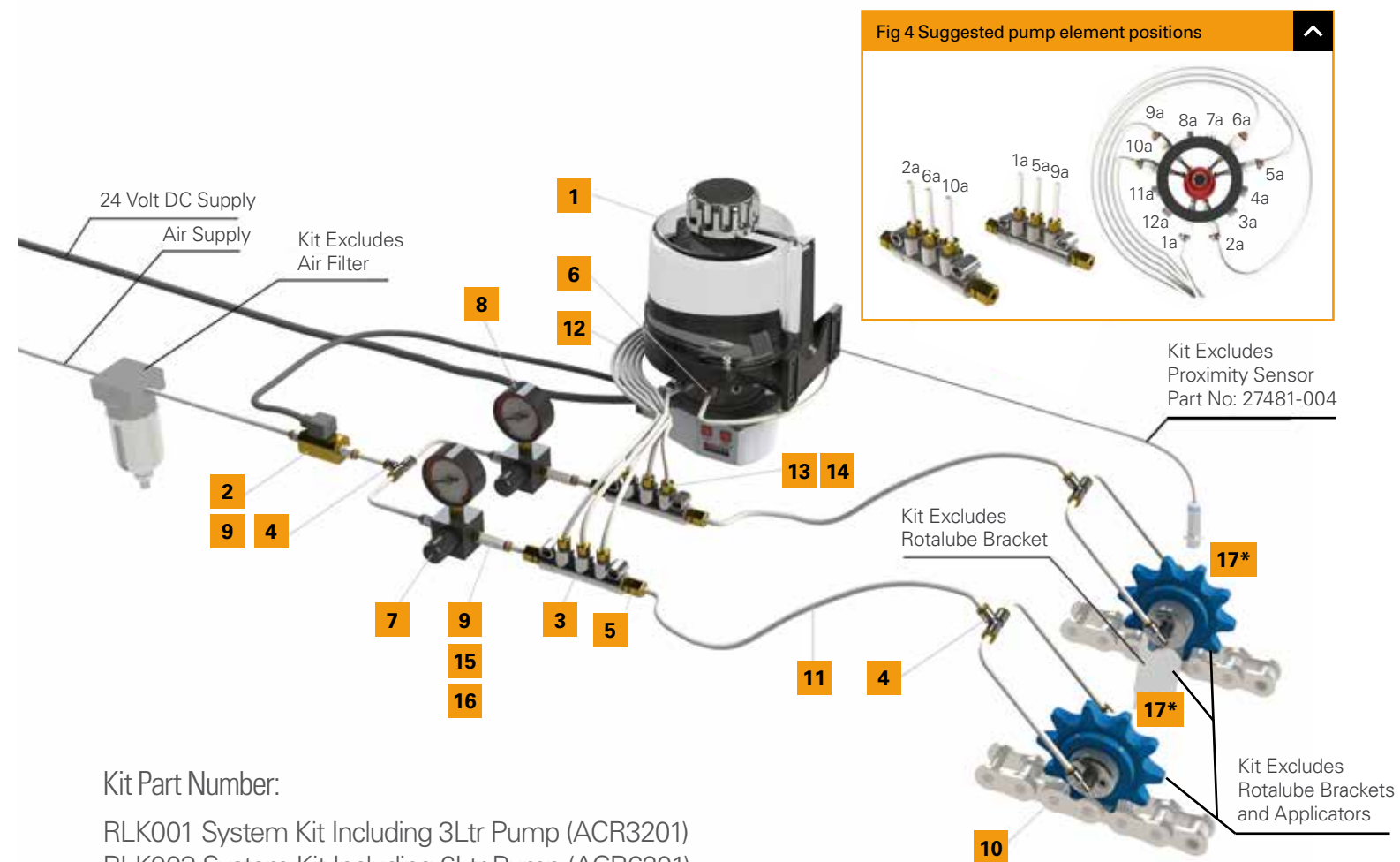
Kit Part Number:

- RLK001 System Kit Including 3Ltr Pump (ACR3201)
- RLK003 System Kit Including 6Ltr Pump (ACR6201)

Item	Part Number	Description	Qty
1a	ACR3021	3L Rotalube Pump fitted with 3 pump elements and 9 plugs as standard – 24v DC <b>-or-</b>	1
1b	ACR6021	6L Rotalube Pump fitted with 3 pump elements and 9 plugs as standard – 24v DC	
2	83416-452	Solenoid Valve	1
3	MMS5	Manifold	1
4	25478-101	6mm OD Equal Tee	1
5	25477-926	6mm OD Straight Conn M8x1	2
6	78036	0.040cc Pumping Unit	3
7	25851-200	Air Reg 1/4" BSPF + Bracket	1
8	25873-220	1/8" BSPT 0-40PSI Pressure Gauge	1
9	25477-767	6mm OD Straight Connector 1/4"BSP	1
10	25478-171	6mm OD Swivel 1/8NPT	2
11	25210-410	6mm OD Nylon Tube Unfilled	10mtr
12	25210-411	4mm OD Nylon Tube Unfilled	3mtr
13	LM304	4mm OD Sleeve Nut	3
14	LM204	4mm OD Cone	3
15	25471-121	1/4" BSP Male Male Nipple	2
16	25227-590	Blanking Plug 1/8"NPT	1

\*Blanking plug required only if one of the inlets is inaccessible

# Rotalube Lubrication Kit for Two Standard Rotalubes



Kit Part Number:

- RLK001 System Kit Including 3Ltr Pump (ACR3201)
- RLK003 System Kit Including 6Ltr Pump (ACR6201)

Item	Part Number	Description	Qty
1a	ACR3021	3L Rotalube Pump fitted with 3 pump elements and 9 plugs as standard – 24v DC <b>-or-</b>	1
1b	ACR6021	6L Rotalube Pump fitted with 3 pump elements and 9 plugs as standard – 24v DC	
2	83416-452	Solenoid Valve	1
3	MMS5	Manifold	2
4	25478-101	6mm OD Equal Tee	3
5	25477-926	6mm OD Straight Conn M8x1	4
6	78036	0.040cc Pumping Unit	6
7	25851-200	Air Reg 1/4" BSPF + Bracket	2
8	25873-220	1/8" BSPT 0-40PSI Pressure Gauge	2
9	25477-767	6mm OD Straight Connector 1/4"BSP	5
10	25478-171	6mm OD Swivel 1/8NPT	4
11	25210-410	6mm OD Nylon Tube Unfilled	20mtr
12	25210-411	4mm OD Nylon Tube Unfilled	6mtr
13	LM304	4mm OD Sleeve Nut	6
14	LM204	4mm OD Cone	6
15	25471-121	1/4" BSP Male Male Nipple	2
16	25857-105	1/4" BSP Female Female Check Valve	2
17	25227-590	Blanking Plug 1/8"NPT	2

\*Blanking plug required only if one of the inlets is inaccessible

# Standard System Operation

The ACR Rotalube pump has an adjustable controller to control both the 'RUN' and 'DELAY' periods of the pump and solenoid, with both the periods being defined either in terms of time or pulses.

The 'RUN' period in time mode can be set between one minute and 99 minutes in one-minute steps. In pulse mode, the run period can be set between 10 and 9990 pulses in steps of 10 pulses.

The 'DELAY' period in time mode can be set between one-minute and 100-hours in one-minute steps. In pulse mode the delay period can be set between 10 and 9990 pulses in steps of 10 pulses.

The controller energizes the solenoid output five seconds before starting the pump and this output remains energized for five seconds after the pump has finished running.

The pump has two alarm modes. The first is triggered if the controller senses that the motor has failed. The second is triggered when the run time is set to pulse mode and the controller does not see the full number of pulses specified within 110 minutes. This alarm can be reset by pressing the manual override button.

## ACR Rotalube Pump

The ACR lubrication pump is specifically designed to apply small and accurate amounts of oil to the Rotalube. Fully adjustable run and dwell functions.

### Specifications

- Pump Voltage: 24v DC
- IP Rating: IP 67
- Current: 2 Amp Max
- Reservoir: 3 and 6 Litre Reservoirs
- Maximum Outlets:
  - 12 – Standard ACR pump for single rotalube system is fitted with 3 x elements (78036).
  - Standard ACR pump for double kits fitted with 6 x elements as standard (78036).
- Maximum Viscosity: 120 Cst
- Minimum Viscosity: 68 Cst
- Maximum Ambient Temp: +65°C
- Maximum Ambient Temp: -35°C



ACR6 Pump



ACR3 Pump

### Pump Elements

Profile	Color	Stroke Output (cc)	Part No (Ø4 Tube)
	Red	0.010	78033
	Green	0.015	78034
	Yellow	0.025	78035
	Blue	0.040	78036
	Grey	0.060	78037
	Black	0.100	78038

The three blue elements give an output of 0.12cc per minute.

This can be altered to increase or decrease the lubricant output.

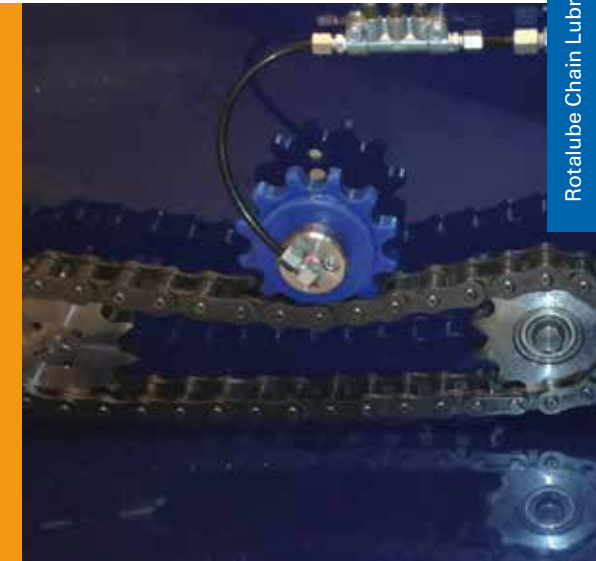
# Rotalube Applications Standard and Bespoke

## Standard Rotalubes

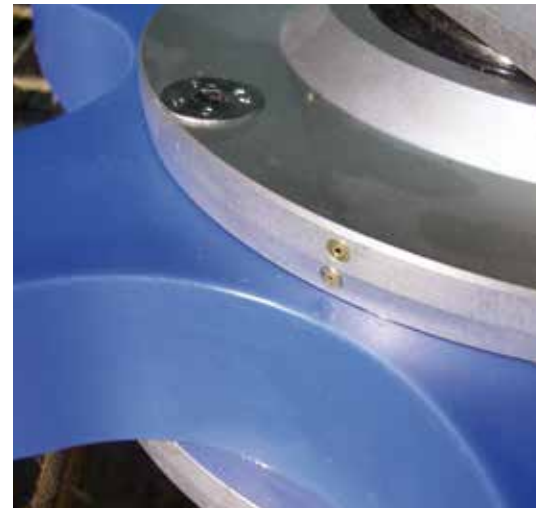


Standard Rotalubes are detailed on page 3.

These applicators have a hard-wearing Nylatron sprocket. Standard Rotalubes can be fed by lubrication kits detailed on pages 4 and 5 or by similar lubrication systems.



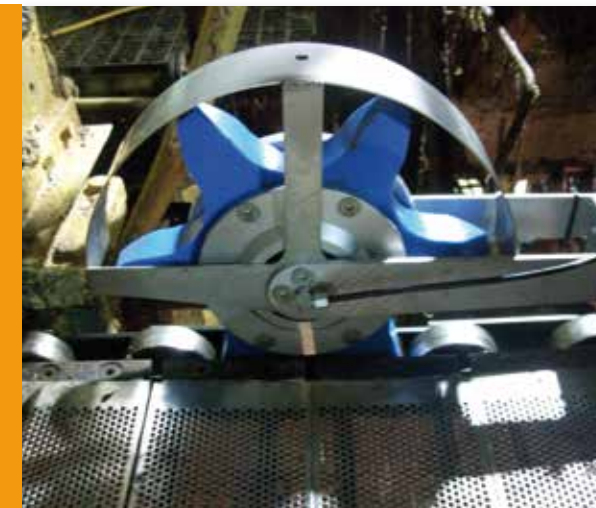
## Custom Applications



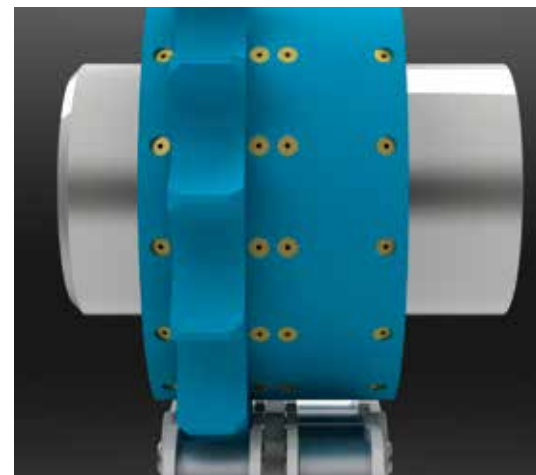
Custom Rotalubes are available for large pitch chain; in some cases, chain with greater than 9-inch pitch.

High-temperature Rotalubes are also available for oven chains.

Custom Rotalubes are specifically designed for each application, together with the appropriate lubrication system to automatically feed the applicators with lubricant.



## Duplex and Triplex Chain Application



For further information, or to request a quote on a bespoke applications, please contact your nearest Timken ILS Representative.

You may also contact Timken ILS for the latest custom Rotalube catalog.

## Vertical Mounted Applicators

